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1 [Using temporal hierarchies to efficiently maintain large temporal databases](#) 77%



Thomas Dean

Journal of the ACM (JACM) October 1989

Volume 36 Issue 4

Many real-world applications involve the management of large amounts of time-dependent information. Temporal database systems maintain this information in order to support various sorts of inference (e.g., answering questions involving propositions that are true over some intervals and false over others). For any given proposition, there are typically many different occasions on which that proposition becomes true and persists for some length of time. In this paper, these occasions are re ...

2 [Types and persistence in database programming languages](#) 77%



Malcolm P. Atkinson , O. Peter Buneman

ACM Computing Surveys (CSUR) June 1987

Volume 19 Issue 2

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

3 [The Recovery Manager of the System R Database Manager](#) 77%



Jim Gray , Paul McJones , Mike Blasgen , Bruce Lindsay , Raymond Lorie , Tom Price , Franco Putzolu , Irving Traiger

ACM Computing Surveys (CSUR) June 1981

11/01/03

Volume 13 Issue 2

4 On randomization in sequential and distributed algorithms

77%



Rajiv Gupta , Scott A. Smolka , Shaji Bhaskar

ACM Computing Surveys (CSUR) March 1994

Volume 26 Issue 1

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed—that span a wide range of applications, including: primality testing (a classical problem in number theory), interactive probabilistic proofs ...

Results 1 - 4 of 4 [short listing](#)

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A simple algorithm of load flow for distribution system*Liu Jun; Song Wennan;*

Advances in Power System Control, Operation and Management, 1991. APSCOM-91., 1991 International Conference on , 5-8 Nov 1991

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Engineering in Medicine and Biology society, 1997. Proceedings of the 19th Annual International Conference of the IEEE , Volume: 2 , 30 Oct.-2 Nov. 1997

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[◀ Back to Previous Page](#)**Load balancing and hot spot relief for hash routing among a collection of proxy caches***Kun-Lung Wu; Yu, P.S.;*

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Parallel and Distributed Processing Symposium, 2000. IPDPS 2000. Proceedings. 14th International , 1-5 May 2000

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1	0	((database\$1 and (@ad < "20010104")) same (load\$4 or transaction\$1 or insert\$4 or updat\$4 or delet\$4 or modif\$4)) and undo\$4	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
2	12587 2	(database\$1 and (@ad < "20010104"))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
3	945	123 and (database\$1 same ((target or destination) with table\$1))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
4	504	124 and ((primary adj key\$1) or id\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
5	210	125 and (insert\$4 and updat\$4 and delet\$4)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
6	0	126 and ((reconstruct\$4 or rebuil\$4) with histor\$4 with time)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
7	0	126 and ((reconstruct\$4 or rebuil\$4) with histor\$4)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
8	63	126 and histor\$4 and time	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
9	1	126 and ((reconstruct\$4 or rebuil\$4) same histor\$4)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
10	9	130 and undo\$4	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
1	16752	database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
2	8874	(database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
3	5707	((database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")) and load\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
4	755	((database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")) and (load\$4 with (table\$1 or entit\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
5	67	((((database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")) and (load\$4 with (table\$1 or entit\$3))) and ((row\$1 or tuple\$1 or record\$1) same (primary adj key\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
6	67	(((((database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")) and (load\$4 with (table\$1 or entit\$3))) and ((row\$1 or tuple\$1 or record\$1) same (primary adj key\$1))) and (insert\$4 or updat\$4 or delet\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
7	67	(((((database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")) and (load\$4 with (table\$1 or entit\$3))) and ((row\$1 or tuple\$1 or record\$1) same (primary adj key\$1))) and (insert\$4 or updat\$4 or delet\$4)) and (log\$4 or histor\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
8	47	("6195685") or ("6101527") or ("6272675") or ("6321374") or ("6334158") or ("6301606") or ("6374283") or ("5365516") or ("5526357") or ("5644754") or ("6088706") or ("5355406") or ("5983272") or ("5506787") or ("5790809") or ("5946467") or ("6014702") or ("6052773") or ("6064721") or ("6111951") or ("6212575") or ("5365494") or ("5367573") or ("5611575") or ("5724506") or ("5742814") or ("5745767") or ("5781189") or ("5794204") or ("5826026") or ("5857183") or ("5907843") or ("5929852") or ("6016394") or ("6046979") or ("6108663") or ("6122675") or ("6131117") or ("6173319") or ("6199752") or ("6201539") or ("6212575") or ("6216156") or ("6226792") or ("6216156") or ("6226792") or ("6249794") or ("4582986") or ("4943932") or ("5295128")) .PN.	USPAT

	Hits	Search Text	DBs
1	17496	((707/1-10) or (707/100-104.1) or (707/200) or (707/202-204) or (710/1)).CCLS.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
2	16868	database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
3	1935	16 and 17	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
4	69	18 and (@ad < "20010104") and load\$4 and (un\$1load\$4 or untract\$4)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
5	17	19 and (row\$1 or tuple\$1 or record\$1) and (primary adj key\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
6	1111	content\$1 and (database\$1 same (stor\$4 with data)) and load\$4 and (un\$1load\$4 or retract\$4)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
7	109	111 and (primary adj key\$1) and table\$1 and (row\$1 or record\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
8	87	l12 and (un\$1load\$1 or (undo\$4 adj load\$4) or (load\$4 with retract\$4))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
9	86	l13 and insert\$4 and updat\$4 and delet\$4	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
10	86	l14 and value\$1	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
11	75	l15 and (@ad < "20010104")	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
12	75	l16 and (column\$1 or attribute\$1 or field\$1)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
1	16752	database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
2	8874	(database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
3	5707	((database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")) and load\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
4	755	((database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")) and (load\$4 with (table\$1 or entit\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
5	67	((database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")) and (load\$4 with (table\$1 or entit\$3))) and ((row\$1 or tuple\$1 or record\$1) same (primary adj key\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
6	67	((database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")) and (load\$4 with (table\$1 or entit\$3))) and ((row\$1 or tuple\$1 or record\$1) same (primary adj key\$1))) and (insert\$4 or updat\$4 or delet\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
7	67	((database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)) and (@ad < "20010104")) and (load\$4 with (table\$1 or entit\$3))) and ((row\$1 or tuple\$1 or record\$1) same (primary adj key\$1))) and (insert\$4 or updat\$4 or delet\$4)) and (log\$4 or histor\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
8	47	(("6195685") or ("6101527") or ("6272675") or ("6321374") or ("6334158") or ("6301606") or ("6374283") or ("5365516") or ("5526357") or ("5644754") or ("6088706") or ("5355406") or ("5983272") or ("5506787") or ("5790809") or ("5946467") or ("6014702") or ("6052773") or ("6064721") or ("6111951") or ("6212575") or ("5365494") or ("5367573") or ("5611575") or ("5724506") or ("5742814") or ("5745767") or ("5781189") or ("5794204") or ("5826026") or ("5857183") or ("5907843") or ("5929852") or ("6016394") or ("6046979") or ("6108663") or ("6122675") or ("6131117") or ("6173319") or ("6199752") or ("6201539") or ("6212575") or ("6216156") or ("6226792") or ("6216156") or ("6226792") or ("6249794") or ("4582986") or ("4943932") or ("5295128")) .PN.	USPAT
9	17496	((707/1-10) or (707/100-104.1) or (707/200) or (707/202-204) or (710/1)) .CCLS.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
10	16868	database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
11	1935	((707/1-10) or (707/100-104.1) or (707/200) or (707/202-204) or (710/1)) .CCLS.) and (database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
12	69	(((((707/1-10) or (707/100-104.1) or (707/200) or (707/202-204) or (710/1)).CCLS.) and (database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1))) and (@ad < "20010104") and load\$4 and (un\$1load\$4 or untract\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
13	17	(((((707/1-10) or (707/100-104.1) or (707/200) or (707/202-204) or (710/1)).CCLS.) and (database\$1 and content\$1 and ((track\$4 or monitor\$4 or check\$4 or follow\$4) with change\$1))) and (@ad < "20010104") and load\$4 and (un\$1load\$4 or untract\$4)) and (row\$1 or tuple\$1 or record\$1) and	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
14	1111	content\$1 and (database\$1 same (stor\$4 with data)) and load\$4 and (un\$1load\$4 or retract\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
15	109	(content\$1 and (database\$1 same (stor\$4 with data)) and load\$4 and (un\$1load\$4 or retract\$4)) and (primary adj key\$1) and table\$1 and (row\$1 or record\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
16	87	((content\$1 and (database\$1 same (stor\$4 with data)) and load\$4 and (un\$1load\$4 or retract\$4)) and (primary adj key\$1) and table\$1 and (row\$1 or record\$1)) and (un\$1load\$1 or (undo\$4 adj load\$4) or (load\$4 with retract\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
17	86	((content\$1 and (database\$1 same (stor\$4 with data)) and load\$4 and (un\$1load\$4 or retract\$4)) and (primary adj key\$1) and table\$1 and (row\$1 or record\$1)) and (un\$1load\$1 or (undo\$4 adj load\$4) or (load\$4 with retract\$4)) and insert\$4 and updat\$4 and delet\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
18	86	(((((content\$1 and (database\$1 same (stor\$4 with data)) and load\$4 and (un\$1load\$4 or retract\$4)) and (primary adj key\$1) and table\$1 and (row\$1 or record\$1)) and (un\$1load\$1 or (undo\$4 adj load\$4) or (load\$4 with retract\$4))) and insert\$4 and updat\$4 and delet\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
19	75	(((((content\$1 and (database\$1 same (stor\$4 with data)) and load\$4 and (un\$1load\$4 or retract\$4)) and (primary adj key\$1) and table\$1 and (row\$1 or record\$1)) and (un\$1load\$1 or (undo\$4 adj load\$4) or (load\$4 with retract\$4))) and insert\$4 and updat\$4 and delet\$4) and value\$1) and (@ad < "20010104")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
20	75	(((((content\$1 and (database\$1 same (stor\$4 with data)) and load\$4 and (un\$1load\$4 or retract\$4)) and (primary adj key\$1) and table\$1 and (row\$1 or record\$1)) and (un\$1load\$1 or (undo\$4 adj load\$4) or (load\$4 with retract\$4))) and insert\$4 and updat\$4 and delet\$4) and value\$1) and (@ad < "20010104")) and (column\$1 or attri	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
21	12574 2	database\$1 and (@ad < "20010104")	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
22	93100	(database\$1 and (@ad < "20010104")) and (load\$4 or transaction\$1 or event\$1 or process\$2 or updat\$4 or insert\$4 or modif\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
23	86867	(database\$1 and (@ad < "20010104")) and (load\$4 or transaction\$1 or event\$1 or process\$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
24	5757	((database\$1 and (@ad < "20010104")) and (load\$4 or transaction\$1 or event\$1 or process\$2 or updat\$4 or insert\$4 or modif\$4)) and (undo\$4 or retract\$4 or unload\$4 or (reconstruct\$4 with (state\$1 or sequence\$1 or ser\$3 or	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
25	2177	((database\$1 and (@ad < "20010104")) and (load\$4 or transaction\$1 or event\$1 or process\$2 or updat\$4 or insert\$4 or modif\$4)) and ((undo\$4 or retract\$4 or unload\$4 or reconstruct\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
26	933	((database\$1 and (@ad < "20010104")) and (load\$4 or transaction\$1 or event\$1 or process\$2 or updat\$4 or insert\$4 or modif\$4)) and ((undo\$4 or retract\$4 or unload\$4 or reconstruct\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3))) and table\$1 and ((primary adj key\$1) or id\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
27	909	((database\$1 and (@ad < "20010104")) and (load\$4 or transaction\$1 or event\$1 or process\$2 or updat\$4 or insert\$4 or modif\$4)) and ((undo\$4 or retract\$4 or unload\$4 or reconstruct\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3))) and table\$1 and ((primary adj key\$1) or id\$1)) and time	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
28	835	((database\$1 and (@ad < "20010104")) and (load\$4 or transaction\$1 or event\$1 or process\$2 or updat\$4 or insert\$4 or modif\$4)) and ((undo\$4 or retract\$4 or unload\$4 or reconstruct\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3))) and table\$1 and ((primary adj key\$1) or id\$1)) and time) and structure\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
29	1795	(database\$1 and (@ad < "20010104")) and undo\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
30	429	(database\$1 and (@ad < "20010104")) and (undo\$4 with (load\$1 or event\$1 or transaction\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
31	333	((database\$1 and (@ad < "20010104")) and (undo\$4 with (load\$1 or event\$1 or transaction\$1))) and table\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
32	215	((((database\$1 and (@ad < "20010104")) and (undo\$4 with (load\$1 or event\$1 or transaction\$1))) and table\$1) and ((primary adj key\$1) or id\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
33	161	(((((database\$1 and (@ad < "20010104")) and (undo\$4 with (load\$1 or event\$1 or transaction\$1))) and table\$1) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
34	160	(((((database\$1 and (@ad < "20010104")) and (undo\$4 with (load\$1 or event\$1 or transaction\$1))) and table\$1) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and time	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
35	3378	(database\$1 and (@ad < "20010104")) and (history or log\$1) and (reconstruct\$4 or retract\$4 or undo\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
36	1663	((database\$1 and (@ad < "20010104")) and (history or log\$1) and (reconstruct\$4 or retract\$4 or undo\$4)) and table\$1 and ((primary adj key\$1) or id\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
37	1663	((((database\$1 and (@ad < "20010104")) and (history or log\$1) and (reconstruct\$4 or retract\$4 or undo\$4)) and table\$1 and ((primary adj key\$1) or id\$1)) and ((primary adj key\$1) or id\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
38	730	(((((database\$1 and (@ad < "20010104")) and (history or log\$1) and (reconstruct\$4 or retract\$4 or undo\$4)) and table\$1 and ((primary adj key\$1) or id\$1)) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
39	660	(((((database\$1 and (@ad < "20010104")) and (history or log\$1) and (reconstruct\$4 or retract\$4 or undo\$4)) and table\$1 and ((primary adj key\$1) or id\$1)) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and content\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
40	182	(((((database\$1 and (@ad < "20010104")) and (history or log\$1) and (reconstruct\$4 or retract\$4 or undo\$4)) and table\$1 and ((primary adj key\$1) or id\$1)) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and (content\$1 with database\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
41	130	(((((database\$1 and (@ad < "20010104")) and (history or log\$1) and (reconstruct\$4 or retract\$4 or undo\$4)) and table\$1 and ((primary adj key\$1) or id\$1)) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and (content\$1 with database\$1)) and ((target or destination or first) with table\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
42	125	(((((database\$1 and (@ad < "20010104")) and (history or log\$1) and (reconstruct\$4 or retract\$4 or undo\$4)) and table\$1 and ((primary adj key\$1) or id\$1)) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and (content\$1 with database\$1)) and ((target or destination or first) with table\$1)) and (load\$1 or event\$1 or transaction\$1)\	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
43	125	(((((database\$1 and (@ad < "20010104")) and (history or log\$1) and (reconstruct\$4 or retract\$4 or undo\$4)) and table\$1 and ((primary adj key\$1) or id\$1)) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and (content\$1 with database\$1)) and ((target or destination or first) with table\$1)) and (load\$1 or event\$1 or transaction\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
44	7347	(database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
45	5782	((database\$1 and (@ad < "20010104")) and (load\$4 or transaction\$1 or event\$1 or process\$2 or updat\$4 or insert\$4 or modif\$4)) and (undo\$4 or retract\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or his	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
46	1320	((database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)) and (undo\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
47	1200	((((database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)) and (undo\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3)))) and table\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
48	862	(((((database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)) and (undo\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3)))) and table\$1) and ((primary adj key\$1) or id\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
49	862	(((((database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)) and (undo\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3)))) and table\$1) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
50	859	((((((database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)) and (undo\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3)))) and table\$1) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and time	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
51	59	((((((database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)) and (undo\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3)))) and table\$1) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and (discrete adj time)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
52	800	(((((((database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)) and (undo\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3)))))) and table\$1) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and time) not (((((((database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)) and (undo\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3)))))) and table\$1) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and (discrete adj time))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
53	388	((((((((database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)) and (undo\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3)))))) and table\$1) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and time) not (((((((database\$1 and (@ad < "20010104")) and (insert\$3 and updat\$4 and delet\$4)) and (undo\$4 or unload\$4 or ((reconstruct\$4 or retract\$4) with (state\$1 or sequence\$1 or ser\$3 or log\$1 or histor\$3)))))) and table\$1) and ((primary adj key\$1) or id\$1)) and (insert\$3 and updat\$4 and delet\$4)) and (discrete adj time))) and (structure\$1 with table\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
8	63	126 and histor\$4 and time	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
9	1	126 and ((reconstruct\$4 or rebuil\$4) same histor\$4)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
10	9	130 and undo\$4	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
11	70	insert\$4 and updat\$4 and delet\$4 and ((target\$4 or destin\$5) with table\$1) and (database\$1 same table\$1) and undo\$4 and (@ad < "20010104") and ((primary adj key\$1) or ((row\$1 or record\$1) with id\$1))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
12	12431	(redo\$4).ti,ab.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
13	69	(redo\$4 and database\$1).ti,ab.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
14	56	134 and (@ad < "20010104")	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

	Hits	Search Text	DBs
15	80	(undo\$4 and database\$1).ti,ab.	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
16	69	136 and (@ad < "20010104")	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
17	45	137 and stor\$4	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
18	9	138 and table\$1 and ((primary adj key\$1) or ((row\$1 or record\$1) with id\$1))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

	Hits ▾	Search Text	DBs
1	112200	((undo\$4 or (roll\$5back) or un\$1load\$4) with (change\$1 or alteration\$1 or modification\$1 or updat\$4 or load\$4))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
2	88263	((undo\$4 or (roll\$5back) or un\$1load\$4) with (change\$1 or alteration\$1 or modification\$1 or updat\$4 or load\$4))) and (@ad < "20010114")	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
3	88241	((undo\$4 or (roll\$5back) or un\$1load\$4) with (change\$1 or alteration\$1 or modification\$1 or updat\$4 or load\$4))) and (@ad < "20010114")) and (@ad < "20010114")	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
4	15246	((707/1-10) or (707/100-104.1) or (707/200) or (707/202-204) or (707/206) or (710/1) or (710/19) or (711/4) or (711/100) or (711/111) or (711/207)).CCLS.	USPAT
5	2068	((undo\$4 or (roll\$5back) or un\$1load\$4) with (change\$1 or alteration\$1 or modification\$1 or updat\$4 or load\$4))) and (@ad < "20010114")) and database\$1	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
6	549	((undo\$4 or (roll\$5back) or un\$1load\$4) with (change\$1 or alteration\$1 or modification\$1 or updat\$4 or load\$4))) and (@ad < "20010114")) and database\$1) and ((707/1-10) or (707/100-104.1) or (707/200) or (707/202-204) or (707/206) or (710/1) or (710/19) or (711/4) or (711/100) or (711/111) or (711/207)).CCLS.)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

	Hits ▾	Search Text	DBs
7	61	(((((undo\$4 or (roll\$5back) or un\$1load\$4) with (change\$1 or alteration\$1 or modification\$1 or updat\$4 or load\$4))) and (@ad < "20010114")) and (@ad < "20010114")) and ((re\$1structur\$4 or re\$1organiz\$4) with (load\$1 or sequenc\$4 or histor\$4 or state\$1 or table\$1))	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
8	60	(((((undo\$4 or (roll\$5back) or un\$1load\$4) with (change\$1 or alteration\$1 or modification\$1 or updat\$4 or load\$4))) and (@ad < "20010114")) and (@ad < "20010114")) and ((re\$1structur\$4 or re\$1organiz\$4) with (load\$1 or sequenc\$4 or histor\$4 or state\$1 or table\$1))) and time	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
9	27	(((((undo\$4 or (roll\$5back) or un\$1load\$4) with (change\$1 or alteration\$1 or modification\$1 or updat\$4 or load\$4))) and (@ad < "20010114")) and database\$1) and (((707/1-10) or (707/100-104.1) or (707/200) or (707/202-204) or (707/206) or (710/1) or (710/19) or (711/4) or (711/100) or (711/111) or (711/207)).CCLS.)) and ((reconstruct\$4 or restructur\$4 or rebuild\$4 or reorganiz\$4) with state\$1) and time	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
10	11	((("5170464") or ("6529921") or ("6185555") or ("6457021") or ("5812840") or ("6122640") or ("6502133") or ("5806075") or ("5850507") or ("6182241") or ("6647510"))).PN.	USPAT
11	10	((("5170464") or ("6529921") or ("6185555") or ("6457021") or ("5812840") or ("6122640") or ("6502133") or ("5806075") or ("5850507") or ("6182241") or ("6647510"))).PN.) and table\$1	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

	Hits ▽	Search Text	DBs
12	7	((("5170464") or ("6529921") or ("6185555") or ("6457021") or ("5812840") or ("6122640") or ("6502133") or ("5806075") or ("5850507") or ("6182241") or ("6647510")).PN.) and table\$1) and load\$1	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
13	7	(((((("5170464") or ("6529921") or ("6185555") or ("6457021") or ("5812840") or ("6122640") or ("6502133") or ("5806075") or ("5850507") or ("6182241") or ("6647510")).PN.) and table\$1) and load\$1) and (modif\$6 or chang\$4 or updat\$4)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
14	5	(((((undo\$4 or (roll\$5back) or un\$1load\$4) with (change\$1 or alteration\$1 or modification\$1 or updat\$4 or load\$4))) and (@ad < "20010114")) and database\$1) and (((707/1-10) or (707/100-104.1) or (707/200) or (707/202-204) or (707/206) or (710/1) or (710/19) or (711/4) or (711/100) or (711/111) or (711/207)).CCLS.)) and ((reconstruct\$4 or restructur\$4 or rebuild\$4 or reorganiz\$4) with histor\$3) and time	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB
15	1	(((((undo\$4 or (roll\$5back) or un\$1load\$4) with (change\$1 or alteration\$1 or modification\$1 or updat\$4 or load\$4))) and (@ad < "20010114")) and database\$1) and (((707/1-10) or (707/100-104.1) or (707/200) or (707/202-204) or (707/206) or (710/1) or (710/19) or (711/4) or (711/100) or (711/111) or (711/207)).CCLS.)) and (discrete adj time)	USPAT; US-PGPUB ; EPO; JPO; DERWENT; IBM_TDB

	Hits ▾	Search Text	DBs
16	1	(((((("5170464") or ("6529921") or ("6185555") or ("6457021") or ("5812840") or ("6122640") or ("6502133") or ("5806075") or ("5850507") or ("6182241") or ("6647510"))).PN.) and table\$1) and load\$1) and (modif\$6 or chang\$4 or updat\$4)) and (reconstruct\$4 or restructur\$4 or rebuild\$4 or reorganiz\$4) and histor\$3 and time	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
17	0	(((((("5170464") or ("6529921") or ("6185555") or ("6457021") or ("5812840") or ("6122640") or ("6502133") or ("5806075") or ("5850507") or ("6182241") or ("6647510"))).PN.) and table\$1) and load\$1) and (modif\$6 or chang\$4 or updat\$4)) and ((reconstruct\$4 or restructur\$4 or rebuild\$4 or reorganiz\$4) with histor\$3) and tim	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
18	0	(((((("5170464") or ("6529921") or ("6185555") or ("6457021") or ("5812840") or ("6122640") or ("6502133") or ("5806075") or ("5850507") or ("6182241") or ("6647510"))).PN.) and table\$1) and load\$1) and (modif\$6 or chang\$4 or updat\$4)) and ((reconstruct\$4 or restructur\$4 or rebuild\$4 or reorganiz\$4) same histor\$3) and tim	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB